



Sheet 1 of 1

|   |  |  |                                  |                               |
|---|--|--|----------------------------------|-------------------------------|
| FORM PTO-1449<br><br><b>INFORMATION DISCLOSURE STATEMENT</b><br><br>(Use several sheets if necessary) | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |  | ATTORNEY DOCKET NO.<br>1830.1023 | APPLICATION NO.<br>10/580,863 |
|   | FIRST NAMED INVENTOR<br>Kazuhiro OBAE et al.               |  |                                  |                               |
|   | FILING DATE<br>May 26, 2006                                |  | GROUP/ART UNIT<br>1623           |                               |
|   |  |  |                                  |                               |

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT<br>NO. | DATE       | NAME           | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|----------------------|----|-----------------|------------|----------------|-------|---------------|----------------|
|                      | AA | 2003/0100749    | 05/29/2003 | Withers et al. |       |               |                |
|                      | AB |                 |            |                |       |               |                |
|                      | AC |                 |            |                |       |               |                |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NO. | DATE       | COUNTRY | TRANSLATION<br>YES NO |  | ABSTRACT |
|--|----|-----------------|------------|---------|-----------------------|--|----------|
|  | AD | WO 01/33973     | 05/17/2001 | WIPO    |                       |  |          |
|  | AE | 0 470 331       | 02/12/1992 | Europe  |                       |  |          |
|  | AF |                 |            |         |                       |  |          |
|  | AG |                 |            |         |                       |  |          |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |  |  | TRANSLATION<br>YES NO |  |
|--|----|--|--|--|-----------------------|--|
|  | AH | Shiro Kobayashi et al., "Chemical synthesis of cellulose and cello-oligomers using a hydrolysis enzyme as a catalyst", INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, BUTTERWORTH & CO., GUILDFORD, GREAT BRITAIN, Vol. 17, No. 6, 1995, Pgs. 373-379.  |  |  |                       |  |
|  | AI | K. Bhat et al., "Study of the mode of action and site specificity of the endo-(1-4)-beta-D-glucanases of the fungus Penicillium pinophilum with normal, 1- <sup>3</sup> H-labelled, reduced and chromogenic cello-oligosaccharides", BIOCHEMICAL JOURNAL, PORTLAND PRESS, LONDON, GREAT BRITAIN, Vol. 266, No. 2, March 1, 1990, Pgs. 371-378. |  |  |                       |  |

|   |                 |
|---|-----------------|
| EXAMINER  | DATE CONSIDERED |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 509. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |



## ATTACHMENT 1(g)

|   |                      |                 |
|---|----------------------|-----------------|
| <b>LIST OF ADDITIONAL SUBMITTED DOCUMENTS</b> | ATTORNEY DOCKET NO.  | APPLICATION NO. |
|   | 1830.1023            | 10/580,863      |
|   | FIRST NAMED INVENTOR |                 |
|   | Kazuhiro OBAE et al. |                 |
|   | FILING DATE          | GROUP/ART UNIT  |
|   | May 26, 2006         |                 |

The following document(s) is/are listed in accordance with the duty of disclosure provisions of 37 CFR § 1.56, so that the Examiner may consider same should he deem any thereof to be material to examination of the subject application.

It is requested that the Examiner acknowledge his consideration of document(s) below-listed by initialling same in the space provided adjacent each such application and that the Examiner sign and date this form at the bottom thereof to confirm such consideration having been given.

This submission in no way represents an admission that any of the information listed herein constitutes prior art with respect to the subject application; and unless and until such prior art status is established, this submission is not a request that the information presented herein be printed on the face of any patent issuing from the subject application in which this information is being filed.

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT<br>NO. | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|----------------------|----|-----------------|------|------|-------|---------------|----------------|
|                      | AA |                 |      |      |       |               |                |
|                      | AB |                 |      |      |       |               |                |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NO. | DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION<br>YES NO |  |
|--|----|-----------------|------|---------|-------|---------------|-----------------------|--|
|  | AC |                 |      |         |       |               |                       |  |
|  | AD |                 |      |         |       |               |                       |  |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |  |  |  |  | TRANSLATION<br>YES NO |  |
|--|----|--|--|--|--|--|-----------------------|--|
|  | AE | Supplementary European Search Report, mailed March 26, 2007, and issued in corresponding European Patent Application No. 04819431.0-2115 |  |  |  |  |                       |  |

|  |                 |
|--|-----------------|
| EXAMINER   | DATE CONSIDERED |
| *EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

10/580863

AP9 Rec'd PCT/PTO 26 MAY 2006

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|---|--|----------------------|-----------------|
| FORM PTO-1449   | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTORNEY DOCKET NO.  | APPLICATION NO. |
|   |  | 1830.1023            |                 |
|   |  | FIRST NAMED INVENTOR |                 |
|   |  | Kazuhiro OBAE et al. |                 |
| INFORMATION DISCLOSURE STATEMENT<br>(Use several sheets if necessary) |  | FILING DATE          | GROUP ART UNIT  |
|   |  | May 26, 2006         | 1623            |

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL | DOCUMENT<br>NO. | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|----------------------|-----------------|------|------|-------|---------------|----------------|
|                      |                 |      |      |       |               |                |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NO. | DATE              | COUNTRY | TRANSLATION<br>YES NO | ABSTRACT |
|--|----|-----------------|-------------------|---------|-----------------------|----------|
|  | AA | 60181102        | September<br>1985 | JAPAN   |                       | YES      |
|  | AB | 4091795         | March<br>1992     | JAPAN   |                       | YES      |
|  | AC | 8073506         | March<br>1996     | JAPAN   |                       | YES      |
|  |    |                 |                   |         |                       |          |
|  |    |                 |                   |         |                       |          |
|  |    |                 |                   |         |                       |          |

## OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

|   |    |   |                       |
|---|----|---|-----------------------|
|   |    |   | TRANSLATION<br>YES NO |
|   | AD | Koki FUJITA et al., "Transfer Reaction of $\beta$ -Fructofuranosidase from Anthrobacter sp. K-1" Journal for starch and its related carbohydrates and enzymes, Vol. 39, No. 2 Pages 135-142, 1992 |                       |
|   | AE | PCT International Search Report from Japanese Patent Office Mailed on January 25, 2005  |                       |
|   |    |   |                       |
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